

IN THE CLAIMS

Please cancel claims 1-19.

Please enter new claims 20-40 as indicated below.

1-19 (cancelled)

20. (new) A rotary die cutting apparatus for cutting a moving web of material into blanks, said apparatus comprising:

a pair of cylinders in peripheral contact;

a rotary die mounted to one of said cylinders, said rotary die having cutting elements thereon adapted to generate blanks and scrap portions from the moving web of material;

means for gripping scrap portions, said gripping means extending from said rotary die, said gripping means registering with at least some of said scrap portions as said die rotates, said gripping means sized and positioned so as not to pierce completely through said scrap portions; and

a stripping knife having an edge for contacting said scrap portions as said scrap portions are stripped away from said gripping means.

21. (new) The apparatus of claim 20 wherein each said pair of cylinders have co-acting cutting elements thereon.

22. (new) The apparatus of claim 21 wherein said gripping means has a top surface that does not extend above said cutting elements.

23. (new) The apparatus of claim 20 wherein said gripping means is integrally formed with said rotary die.

24. (new) The apparatus of claim 20 wherein said gripping means includes a plurality of projections arranged in a pattern of isosceles triangles.

25. (new) The apparatus of claim 24 wherein said a plurality of projections are approximately equally spaced apart.

26. (new) The apparatus of claim 24 wherein for a web material having a thickness of about .010 inches said projections have a height of about .015 inches.

27. (new) The apparatus of claim 24 wherein said projections are spaced together within a range of from about 25 to about 400 projections per square inch.

28. (new) A rotary die cutting apparatus for cutting a moving web of material into blanks, said apparatus comprising:

a pair of cylinders in peripheral contact;

a rotary die removably mounted to one of said cylinders, at least one of said rotary dies having a cutting element thereon adapted to generate blanks and scrap portions from the moving web of material, the outer edge of said cutting element being located a first distance from the centerline of the one said cylinder;

a plurality of gripping elements extending from the one said cylinder, said gripping elements registering with at least some of said scrap portions as said cylinders rotate, said gripping elements sized and positioned so as not to pierce completely through said scrap portions, each said gripping element having a tip located from the centerline of the one said cylinder by a distance less than the first distance; and

a stripping knife having an edge for contacting said scrap portions as said scrap portions are stripped away from said gripping elements.

29. (new) The apparatus of claim 28 wherein each said pair of cylinders have co-acting cutting elements thereon.

30. (new) The apparatus of claim 28 wherein said gripping elements are integrally formed with one of said rotary dies using one of the methods of electrical discharge machining, photo-etching, and chemical etching.

31. (new) The apparatus of claim 28 wherein said gripping elements are arranged in a pattern of isosceles triangles.

32. (new) The apparatus of claim 31 wherein said gripping elements are approximately equally spaced apart.

33. (new) The apparatus of claim 28 wherein for a web material having a thickness of about .010 inches said gripping elements have a height of about .015 inches.

34. (new) The apparatus of claim 33 wherein said gripping elements are spaced together within a range of from about 25 to about 400 gripping elements per square inch.

35. (new) A rotary die cutting apparatus for cutting a moving web of material into blanks, said apparatus comprising:

a pair of cylinders in peripheral contact;

a rotary die mounted to one of said cylinders, said rotary die having cutting elements thereon adapted to generate blanks and scrap portions from the moving web of material;

a plurality of gripping elements extending from the one said cylinder, said gripping elements registering with at least some of said scrap portions as said cylinders rotate, said gripping elements sized and positioned so as not to pierce completely through said scrap portions, each said gripping element being integral with each other said gripping element, ; and

a stripping knife having an edge for contacting the leading edges of said scrap portions as said scrap portions are stripped away from said gripping elements.

36. (new) The apparatus of claim 35 wherein each said pair of cylinders have co-acting cutting elements thereon.

37. (new) The apparatus of claim 35 wherein said gripping elements are fabricated integrally using one of the methods of electrical discharge machining, photo-etching, and chemical etching.

38. (new) The apparatus of claim 37 wherein said gripping elements are arranged in a pattern of isosceles triangles.

39. (new) The apparatus of claim 37 wherein said gripping elements have a height of about .015 inches.

40. (new) The apparatus of claim 37 wherein said gripping elements are spaced together within a range of from about 25 to about 400 gripping elements per square inch.

CLOSING

Applicant has cancelled claims 1-19 and added new claims 20-40. Applicant respectfully requests examination of this application. The undersigned welcomes a telephonic interview with the Examiner, if the Examiner believes such an interview would facilitate resolution of any outstanding issues in this case.

Respectfully submitted

By: 

John V. Daniluck
Reg. No. 40,581
Woodard, Emhardt, Moriarty,
McNett & Henry LLP
Bank One Center/Tower
111 Monument Circle, Suite 3700
Indianapolis, Indiana 46204-5137
(317) 634-3456 (telephone)
(317) 637-7561 (facsimile)